

Table 7.1 — Performance Measures

PERFORMANCE MEASURE	LONG-RANGE GOAL	OBJECTIVE IN CMP STATUTE	REQUIRED DATA	HOW RESULTS CAN BE USED	CAUTIONARY NOTES CONCERNING USE OF THE DATA
Average Highway Speeds	Improve mobility Improve air quality	Mobility Air Quality	Current Requirement, Average speeds on CMP network	Level of Service determinations. Trigger Deficiency Plans. Evaluate direct effectiveness of projects in relieving congestion.	Adequate for determining CMP conformance. Caution in use as a measure of mobility.
Travel Time Transit, Highways, HOV Lanes	Improve Mobility Increase Transit Use Improve Air Quality	Mobility Air Quality Land Use	Average travel time between selected origin-destination pairs Obtain from annual LOS monitoring data and transit schedules	Useful in analyzing trends, comparing alternatives or as an evaluation of the effectiveness of the <i>Countywide Transportation Plan</i> . Problems can be spotted for targeted investment. Updated model may be able to reliably forecast changes in travel times. Can compare travel times via roadway and transit along major corridors.	Caution in a reliance on data collected on a few days each year which is not always representative of conditions throughout the year. Caution in the use of forecasted travel speeds or travel times from the model unless properly calibrated
Duration of Traffic Congestion	Enhance Economic Vitality (Expedite freight movement)	Economic Air Quality	Hours of congestion at key locations	Could be used as trigger for certain traffic management strategies to contain congestion to normal peak periods to maintain smooth truck travel during mid-day.	Caution in a reliance on data collected on a few days each year which is not always representative of conditions throughout the year.

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Roadway Maintenance	Ensure serviceable operation of existing facilities	Economic	MTC's Pavement Condition Index	\$ amount of maintenance backlog for MTS roadways. Useful in guiding investment decisions for roadway maintenance needs.	Reliability dependent on subjective assumptions made by local agency staff. Assumptions can change annually depending on staff person conducting the estimate.
Roadway Accidents on Freeways	Improve mobility Ensure serviceable operation of existing facilities	Mobility Air Quality	Number of accidents/Number of miles; From Switter/TASIS System	Identify safety issues. Useful in guiding investment decisions.	Data not available for local streets/roads. Accidents may not be caused by physical facilities.
Completion of Countywide Bike Plan	Improve mobility Improve air quality	Mobility Air Quality	Miles and percent completion of bikeway plan	Progress toward a connective system of countywide bikeways	Does not reflect actual use of bicycle facilities.
Transit Routing	Improve transit access Increase transit use	Mobility Air Quality Land Use	Current CMP requirement	To determine area coverage and proximity of transit service to residential areas and job centers.	Proximity to transit stops or stations is an important indicator of accessibility, however, the data is difficult to collect.

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Transit Frequency	Improve transit access Increase transit use	Mobility Air Quality Land Use	Current CMP requirement, Number of lines operating at each frequency level	To determine convenience of transit service.	
Coordination of Transit Service	Improve transit access Increase transit use	Mobility Air Quality	Current CMP requirement	To determine reliability and convenience for travelers connecting between services.	Current CMP requirement does not provide much information.
Transit Ridership	Increase transit use	Economic Air Quality Land Use	Number of patrons	Trend analysis; comparison between operators	Does a loss of transit ridership indicate that investment in transit should increase or decrease?
Transit Vehicle Maintenance	Ensure serviceable operation of existing facilities	Air Quality	Mean time between service delays (BART) Miles between mechanical road calls (AC, LAVTA, Union City Transit)	Trend analysis; comparison between operators. Transit agencies have internal standards for comparison and investment allocation decisions.	

